

3.21 Parcel 83 – Northeast MP – Former Photoprocessing, Former Vehicle Maintenance, Former Coal Storage and Railroad Unloading, Maintenance Shops

3.21.1 Site Description

This parcel is located in the northeastern portion of the MP and is associated with numerous current and former industrial processes and motor pool operations, including: former vehicle wash platforms; former photoprocessing and printing plants; current and former vehicle maintenance areas; former heating plants; former refrigerant repair; former coal storage; and current and former carpentry, plumbing, and electrical shops.

Historic motor pool operations associated with this parcel include activities at former Bldg 44; former Bldgs 64, 159, 161, and 163; and Bldg 166. Former building locations are depicted on Plan No. 504 – Sanitary Sewer System (1944) provided in **Appendix G**. Former Bldg 44 was a motor vehicle maintenance and repair facility per the 1980 Installation Assessment (40). The building was located directly east of the southeast corner of Bldg 116. No other information was obtained for this former building during record searches. Former Bldg 64, located north of Bldg 167, was identified as a motor vehicle and heavy equipment repair facility in the 1950s (16,25). Former Bldgs 159, 159a, 159b were the roads and grounds shop with motor vehicle and large equipment repair facilities located in the northeast corner of the MP behind Bldgs 167 and 173. U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) archive reports noted motor pool operations in this building including testing and tuning of engines, cleaning of parts with kerosene, steam cleaning using alkali products, acetylene welding, and general automotive maintenance (24,25). Former Bldgs 161 and 163 served as the Post transportation motor pool and were located directly south of Bldg 159. USACHPPM archives noted motor pool operations in this building, including testing and tuning engines, battery charging, acetylene welding, parts cleaning with kerosene, and outdoor steam cleaning of vehicles with alkaline cleaners (16,24,25,41). Bldg 166 was formerly a motor vehicle repair shop for maintenance and repair of large diesel engines, including charging and filling of batteries with sulfuric acid.

Former Bldg 197 was utilized for lawn mower repair, and a 1993 USAEHA air report lists a TCE parts cleaner having been present at this facility (35). Bldg 197 was formerly located across the street from Bldg 280 in the northern portion of the MP.

Bldg 279 is a former vehicle repair shop and currently houses heating, ventilation, and air conditioning (HVAC) and plumbing shops. The HVAC portion of the building is where vehicle maintenance was formerly conducted. Operations described included vehicle testing and repair, parts cleaning and battery charging (15,16,24,25,30,39). Motor Pool operations included former waste oil ASTs and TCE parts cleaners. All TCE parts cleaners were eliminated from use (MP and CWA) in February 1994 under Environmental Program Requirements Project FM0094F088.

Historically, Bldg 280 has been used as a carpentry shop in support of post maintenance. The building has also been used as a paint shop including use and storage of paint thinner, lead-based paint, oil-based paint, aerosol paint cans, and aerosol solvent cans. According to the 1999 chemical inventory, this building also housed a welding shop. Machining, grinding, welding, soldering, and blacksmithing have also been reported in Bldg 280 since the 1950s (15,24). At the time of the 2006 VSIs, Bldg 280 was still utilized as carpentry and metals/welding shops.

Bldg 281 was used for repairing refrigerant-containing equipment from the 1950s into the 1970s. Chemicals utilized included carbon tetrachloride, Freon (and other refrigerants), methyl chloride, sulfur dioxide, Varsol, and methyl chloroform (trichloroethane). Bldg 281 also housed a machine shop where machining and blacksmithing was performed, and silver brazing occasionally using cadmium-containing brazing wire was reported in 1973.

Bldg 483 was historically used for soldering and parts cleaning using organic solvents and dry cleaning fluid. Bldg 483 was demolished prior to 1997. Bldg 485 was used for the cleaning and repair of electrical equipment. Historical operational use of the building included using organic solvents (15,16,25,39). Bldg 485 was demolished in 1997 (42).

Solvents were previously used for cleaning vehicle parts at various locations throughout FTMM. Both the military and its contractors operated solvent parts cleaners. These solvent parts cleaners consisted of a tank and sink with a nozzle. The military used Super Agitine in its parts cleaners, while the contractor used Siloo Tyme II. Each parts cleaner held about 30 gallons of fluid, which was reused until it needed changing. Fluid changes occurred every 4 months to every 3 years depending on location and usage (35).

The potential for a release to the environment from shop operations includes the use of solvents, petroleum products, and metals when waste handling procedures may not have been sufficiently protective to preclude a release to the environment. Additional information pertaining to this parcel can be found in Section 3.3, Section 3.4.1.1, Table 3-3, Section 4.3.2.1.1, Section 4.3.2.1.2, Section 4.3.2.1.3, Section 4.3.2.1.7, Section 5.1.1, Section 5.1.1.2, Section 5.1.1.2.1, Section 5.1.1.2.3, Section 5.2.1, Section 5.4.2, Section 5.5.2, Section 5.8, Section 5.12, Section 5.13.1, Section 5.13.3, Section 5.13.8, Table 5-2, Table 5-5, Table 5-16, Appendix E, Appendix G, and Appendix J of the Phase I ECP (1).

Historic site plans, aerial photographs, and information obtained during personnel interviews indicate a coal storage area formerly existed adjacent to the RR in the northern-most portion of the Parcel 83 in the vicinity of Bldg 75. The potential coal storage area was identified along the RR line in aerial photographs taken in 1940, 1947, 1969, 1970, and 1974.

Electrical transformers were previously stored in an area east of Bldg 173 in the early to mid-1990s. The transformers were either new or in workable condition and classified as

Non-PCB. All transformers were removed from the area in the mid-1990s, but no environmental sampling has been conducted in the area.

Data gaps identified to be investigated in Parcel 83 include potential historic releases from former motor vehicle maintenance and repair facilities (Bldg 166 and former Bldgs 44, 64, 159, 161, 163, 197, and 483), previous shop activities (Bldgs 279, 280, 281, and former Bldg 485), the previous coal storage area, and the former electrical transformer storage location east of Bldg 173.

3.21.2 Previous Investigations

Specific activities and buildings identified in this parcel have not been previously investigated.

3.21.3 Site Investigation Sampling

The following soil and groundwater sampling was conducted in order to determine the impact of historic building operations in the area of former vehicle maintenance and shop facilities. See **Table 3.21-1** for a summary of field activities and **Figure 3.21-1** for sample locations.

Geoprobe® Investigation

Soil and groundwater samples were collected in December 2007 throughout Parcel 83. A total of 27 surface and 33 subsurface soil samples (including five duplicate samples) were collected from 27 distinct Geoprobe® borings (**Figure 3.21-1**). Surface soil samples for non-VO analysis were collected from the 0- to 6-inch interval bgs. For borings located in paved areas, non-VO surface soil samples were collected from the 0- to 6-inch interval directly below the pavement sub-base. Surface soil samples collected for VO analysis were collected from the 18- to 24-inch bgs interval. Subsurface soil samples were collected from the 6-inch interval directly above the water table. Field screening of soil boring cores was conducted using a PID/FID meter. Olfactory evidence of impacted soil was noted at boring location P83-SB10 and one additional subsurface sample P83-SB10-D was collected.

A total of 14 groundwater samples (including two duplicate samples) were collected from 12 distinct temporary wells that were installed with the Geoprobe® rig (**Figure 3.21-1**), and one groundwater sample was collected from existing well 161MW01. Temporary wells were installed downgradient of site-specific AOCs and were constructed of PVC with 5 ft of factory-slotted screen.

Surface Soil Investigation

Surface soil samples were collected in December 2007 in Parcel 83. Samples were collected in order to determine if any contamination exists from potential electrical transformer releases. A total of four surface soil samples were collected from four distinct hand augered borings located east of Bldg 173 at a former electrical transformer

storage location (**Figure 3.21-1**). Surface soil samples for non-VO analysis were collected from the 0- to 6-inch interval bgs.

Table 3.21-1 presents a summary of all field activities, and all sample locations are provided on **Figure 3.21-1**. A summary of sampling activities, including sample IDs, collection dates, analytical parameters, and methods of analysis, is provided in **Table 3.21-2**.

Table 3.21-1
Parcel 83 Sampling Location, Rationale and Analytical

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
83SS-A1 through 83SS-B5 (10 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from the Geoprobe® soil boring grid (conducted on 100-ft centers) to investigate the former coal storage location. If the sample location was paved, the sample was collected from the 0- to 6-inch interval below the pavement sub-base.	TCL+30 (w/o pesticides), TAL Metals
83SB-A1 through 83SB-B5 (12 samples – includes 2 duplicate samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (depths ranging from 2.0 to 6.0 ft bgs) from each Geoprobe® soil boring in the grid (conducted on 100-ft centers) to investigate the former coal storage location. Field screening of the entire Geoprobe® soil core was conducted using PID and FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-A1, A3, A5 (4 samples – includes 1 duplicate sample)	Groundwater	Groundwater samples were collected from the specified Geoprobe® soil borings in the grid to investigate the former location of coal storage.	TCL+30 (w/o pesticides/PCBs), TAL Metals
83SS-1 and 2 (2 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® borings located in the vicinity of former Bldg 44 – motor vehicle maintenance and repair facility.	TCL+30 (w/o pesticides), TAL Metals
83SB-1 and 2 (3 samples – includes 1 duplicate sample)	Subsurface soil	Soil samples collected from the 6-inch interval directly above the water table (depth 5.0 to 5.5 ft bgs) from Geoprobe® borings located in the vicinity of former Bldg 44 – motor vehicle maintenance and repair facility. Field screening of the entire Geoprobe® soil core was conducted using PID and FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-1 (2 samples – includes 1 duplicate sample)	Groundwater	A groundwater sample was collected from the vicinity of former Bldg 44 – motor vehicle maintenance and repair facility.	TCL+30 (w/o pesticides/PCBs), TBA

Final Site Investigation Report – Fort Monmouth – July 2008

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
83SS-3:7 (5 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® borings located south of Bldg 159 and east of Bldgs 167 and 173 to evaluate previous motor repair and fueling activities at former Bldgs 64, 159, 161 and 163.	TCL+30 (w/o pesticides), TAL Metals
83SB-3 through 83SB-7 (6 samples – includes 1 duplicate sample)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (depths ranging from 2.5 to 4.0 ft bgs) from Geoprobe® borings located south of Bldg 159 and east of Bldgs 167 and 173 to evaluate previous motor repair and fueling activities at former Bldgs 64, 159, 161, and 163. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-3, 5, 7 and monitoring well 161MW01 (4 samples)	Groundwater	Groundwater samples were collected from the vicinity of former motor repair and fueling activities at former Bldgs 64, 159, 161 and 163.	TCL+30 (w/o pesticides/PCBs), TBA 161MW01 also included PCBs but not pesticides
83SS-8 (1 sample)	Surface soil	A soil sample was collected from the 0- to 6-inch bgs interval from Geoprobe® borings located directly east of service door entrance to Bldg 166 to evaluate potential release from historical motor vehicle maintenance and repair activities that occurred in the building.	TCL+30 (w/o pesticides), TAL Metals
83SB-8 (1 sample)	Subsurface soil	A soil sample was collected from the 6-inch interval directly above the water table (depth 3.5 to 4.0 ft bgs) from Geoprobe® borings located directly east of service door entrance to Bldg 166 to evaluate potential release from historical motor vehicle maintenance and repair activities that occurred in the building. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-8 (1 sample)	Groundwater	A groundwater sample was collected from a Geoprobe® boring located directly east of service door entrance to Bldg 166 to evaluate potential release from historical motor vehicle maintenance and repair activities that occurred in the building.	TCL+30 (w/o pesticides/PCBs), TBA
83SS-9:11 (3 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® borings located in vicinity of service entrances to Bldgs 279 and 280 to evaluate potential releases from previous vehicle maintenance and shop activities.	TCL+30 (w/o pesticides), TAL Metals

Final Site Investigation Report – Fort Monmouth – July 2008

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
83SB-9, 10, and 11 (4 samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (depths ranging from 3.0 to 7.0 ft bgs) from Geoprobe® borings located in vicinity of service entrances to Bldgs 279 and 280 to evaluate potential releases from previous vehicle maintenance and shop activities. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-10 (1 sample)	Groundwater	A groundwater sample was collected from a Geoprobe® boring located in vicinity of service entrances to Bldg 279 to evaluate potential releases from previous vehicle maintenance and shop activities.	TCL+30 (w/o pesticides/PCBs), TBA
83SS-12 and 13 (2 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® borings located in vicinity of Bldg 281 and former Bldg 485 to evaluate potential releases from previous HVAC maintenance and solvent cleaning activities.	TCL+30 (w/o pesticides), TAL Metals
83SB-12 and 13 (2 samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (depths ranging from 3.0 to 4.0 ft bgs) from Geoprobe® borings located in vicinity of Bldg 281 and former Bldg 485 to evaluate potential releases from previous HVAC maintenance and solvent cleaning activities. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TCL+30 (w/o pesticides), TAL Metals
83GW-12 (1 sample)	Groundwater	A groundwater sample was collected from a Geoprobe® boring located in vicinity of Bldg 281 and former Bldg 485 to evaluate potential releases from previous HVAC maintenance and solvent cleaning activities.	TCL+30 (w/o pesticides/PCBs)
83SS-14 through 83SS-17 (4 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® borings located in vicinity of former Bldgs 197 and 483 to evaluate potential releases from previous engine maintenance and solvent cleaning activities.	TCL+30 (w/o pesticides), TAL Metals
83SB-14 through 83SB-17 (5 samples – includes 1 duplicate sample)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (depths ranging from 2.0 to 6.0 ft bgs) from Geoprobe® borings located in vicinity of former Bldgs 197 and 483 to evaluate potential releases from previous engine maintenance and solvent cleaning activities. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TCL+30 (w/o pesticides), TAL Metals

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
83GW-14, 83GW-17 (2 samples)	Groundwater	Groundwater samples were collected from Geoprobe® borings located in vicinity of former Bldgs 197 and 483 to evaluate potential releases from previous engine maintenance solvent cleaning activities.	TCL+30 (w/o pesticides/PCBs), TBA
83SS-18 through 83SS-21 (4 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval to investigate the former electrical transformer storage location east of Bldg 173.	PCBs, TPCH

Geoprobe® Investigation Results

Soil

As summarized in **Table 3.21-4**, a total of nine VOs, 25 B/Ns, and 21 metals were detected in Parcel 83 soil samples. The VOs were detected at concentrations below the NJDEP NRDCSCC. Four of the 25 B/Ns detected in soil (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenz[a,h]anthracene) were detected in nine soil samples (P83-A1-A, P83-A2-A, P83-A3-A, P83-A4-A, P83-B3-A, P83-B5-A, P83-SB4-A, P83-SB9-C, and P83-SB12-A) at concentrations exceeding NJDEP NRDCSCC and their respective MPBC. Of the 21 metals detected, two (arsenic and lead) were detected at concentrations exceeding NJDEP NRDCSCC and their respective MPBC. The parent material at FTMM is glauconitic soil of the Tinton and Red Bank sands and their fluvially- and tidally-reworked equivalents (47). Total arsenic levels in glauconite-bearing soils in New Jersey have been reported to range up to 131 mg/kg, with a median concentration of 30 mg/kg (21). Anthropogenic influences on arsenic levels in the soil include the use of pesticides and herbicides. Arsenic was a common constituent of herbicides and pesticides in the past. As a result of these natural and anthropogenic influences, arsenic is not considered a COC in soil. One metal (lead) and four B/Ns (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenzo[a]anthracene) are identified as COCs in soil at Parcel 83.

Groundwater

As shown in **Table 3.21-5**, seven VOs were detected in Parcel 83 groundwater samples. All seven VOs (acetone, carbon disulfide, 1,2-dichloroethane, MTBE, TBA, toluene, and xylenes) were detected at concentrations below the NJDEP GWQC.

A total of 13 B/Ns were detected in Parcel 83 groundwater samples. Of the 13 B/Ns detected, bis(2-ethylhexyl)phthalate was the only compound detected above the GWQC of 3 µg/L. It was detected in P83-A1 at a concentration of 5.00 µg/L and in the duplicate sample from this location P83-A1DUP at a concentration of 4.00 µg/L. A commonly used plasticizer, bis(2-ethylhexyl)phthalate, is present in a wide variety of plastic products, is commonly detected in field and laboratory QC samples, and was detected

at a low concentration in the field and method blanks associated with P83-A1. Therefore, it is not considered a COC in groundwater at Parcel 83.

A total of 18 metals were detected in Parcel 83 groundwater samples. Of the 18 metals detected, five (aluminum, arsenic, iron, manganese, and sodium) were detected above the respective GWQC.

Four common, naturally occurring metal constituents, aluminum, iron, manganese, and sodium, were detected in Parcel 83 groundwater samples. Due to the naturally elevated levels of these native metals in the groundwater, aluminum, iron, and manganese are not considered COCs..

Arsenic was detected at a concentration exceeding the NJDEP GWQC of 3 µg/L in one sample, P83-A1 DUP (5.04 µg/L). The other groundwater sample collected at this location had an arsenic detection below the GWQC. The arsenic concentrations did not exceed the MPBC of 89.3 µg/L. In addition, arsenic is associated with the native glauconitic sands (48). The elevated arsenic concentrations in the native soil in turn influence the arsenic levels in groundwater. Thus, arsenic is not considered a COC in groundwater.

Surface Soil (hand auger) Investigation Results

Surface soil samples collected via hand auger were analyzed for PCBs and TPHC.

As summarized in **Table 3.21-3**, TPHC was detected in three of the four surface soil samples. TPHC was detected at concentrations below the NJDEP NRDCSCC and RDCSCC in all three surface soil samples. No PCBs were detected in the four samples.

3.21.4 Summary and Conclusions

Further evaluation is recommended for COCs identified in soil (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and lead). No COCs were identified in groundwater within Parcel 83. Benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and dibenz[a,h]anthracene are PAHs. PAHs are contained in asphalt and are commonly detected in soil under asphalt pavement. Re-collection of samples at locations that are currently paved and/or were paved in the past will be conducted as part of the further evaluation to determine if the PAHs detected in soil are attributable to asphalt.

Table 3.21-2
Parcel 83 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
BLANK	TRIP	TRIP BLANK-SO	12/14/07	-	--	--	X								
SOIL	GEOPROBE	P83-A1-A	12/14/07	8:20	0.0	0.5		X	X	X					
SOIL	GEOPROBE	P83-A1-B	12/14/07	8:25	1.5	2.0	X								
SOIL	GEOPROBE	P83-A1-C	12/14/07	8:30	2.5	3.0	X	X	X	X					
SOIL	GEOPROBE	P83-A2-A	12/14/07	9:40	0.5	1.0			X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-A2-B	12/14/07	9:50	1.5	2.0	X								
SOIL	GEOPROBE	P83-A2-C	12/14/07	10:00	3.5	4.0	X	X	X	X					Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-A3-A	12/14/07	10:40	0.5	1.0			X	X	X	X			Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-A3-B	12/14/07	10:50	1.5	2.0	X								
SOIL	GEOPROBE	P83-A3-C	12/14/07	11:00	3.0	3.5	X	X	X	X					Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-A4-A	12/14/07	11:35	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-A4-B	12/14/07	11:45	1.5	2.0	X								
SOIL	GEOPROBE	P83-A4-C	12/14/07	11:55	3.0	3.5	X	X	X	X					
SOIL	GEOPROBE	P83-A5-A	12/14/07	12:20	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-A5-B	12/14/07	12:30	1.5	2.0	X								
SOIL	GEOPROBE	P83-A5-C	12/14/07	12:40	6.0	6.5	X	X	X	X					
SOIL	GEOPROBE	P83-B1-A	12/14/07	13:50	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-B1-B	12/14/07	14:00	1.5	2.0	X								
SOIL	GEOPROBE	P83-B1-C	12/14/07	14:10	2.0	2.5	X	X	X	X					
SOIL	GEOPROBE	P83-B1-C DUPLICATE	12/14/07	14:10	2.0	2.5	X	X	X	X					
BLANK	FIELD	FIELD BLANK-SO	12/14/07	14:20	--	--	X	X	X	X					
SOIL	GEOPROBE	P83-B2-A	12/14/07	14:40	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-B2-B	12/14/07	14:50	1.5	2.0	X								
SOIL	GEOPROBE	P83-B2-C	12/14/07	15:00	2.5	3.0	X	X	X	X					

Table 3.21-2
Parcel 83 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P83-B3-A	12/15/07	8:40	0.0	0.5		X	X	X					
SOIL	GEOPROBE	P83-B3-B	12/15/07	8:50	1.5	2.0		X							
SOIL	GEOPROBE	P83-B3-C	12/15/07	9:00	3.0	3.5		X	X	X	X				
BLANK	TRIP	TRIP BLANK	12/15/07	-	--	--	X								
SOIL	GEOPROBE	P83-B4-A	12/15/07	9:30	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-B4-B	12/15/07	9:40	1.5	2.0		X							
SOIL	GEOPROBE	P83-B4-C	12/15/07	9:50	5.5	6.0		X	X	X	X				
SOIL	GEOPROBE	P83-B5-A	12/15/07	10:30	1.0	1.5				X	X	X			Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-B5-B	12/15/07	10:40	1.5	2.0	X								
SOIL	GEOPROBE	P83-B5-C	12/15/07	10:50	7.0	7.5		X	X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-B5-C DUPLICATE	12/15/07	10:50	7.0	7.5		X	X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB10-A	12/15/07	11:50	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB10-B	12/15/07	12:00	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB10-C	12/15/07	12:10	5.0	5.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB10-D	12/15/07	12:20	6.5	7.0		X	X	X	X				TPHC collected due to elevated field screening results.
BLANK	FIELD	FIELD BLANK	12/15/07	12:15	--	--		X	X	X	X				Mercury analyzed out of holding time.
BLANK	TRIP	TRIP BLANK-SO	12/17/07	8:30	--	--	X								
BLANK	FIELD	FIELD BLANK-SO	12/17/07	16:00	--	--		X	X	X	X				
SOIL	GEOPROBE	P83-SB9-A	12/17/07	10:50	1.0	1.5			X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB9-B	12/17/07	11:00	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB9-C	12/17/07	11:10	4.5	5.0		X	X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB13-A	12/17/07	11:40	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB13-B	12/17/07	11:50	1.5	2.0	X								

Table 3.21-2
Parcel 83 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P83-SB13-C	12/17/07	12:00	3.5	4.0	X	X	X	X					
SOIL	GEOPROBE	P83-SB12-A	12/17/07	13:40	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB12-B	12/17/07	13:50	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB12-C	12/17/07	14:00	3.0	3.5	X	X	X	X					
SOIL	GEOPROBE	P83-SB3-A	12/17/07	14:30	1.0	1.5			X	X	X				Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB3-B	12/17/07	14:40	1.5	2.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB3-C	12/17/07	14:50	3.5	4.0	X	X	X	X					Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB3-C DUPLICATE	12/17/07	14:50	3.5	4.0	X	X	X	X					Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P83-SB4-A	12/17/07	15:30	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB4-B	12/17/07	15:40	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB4-C	12/17/07	15:50	3.5	4.0	X	X	X	X					
BLANK	TRIP	TRIP BLANK-AQ	12/17/07	6:30	--	--	X								
BLANK	FIELD	FIELD BLANK-AQ	12/17/07	7:30	--	--	X	X			X				
GW	GEOPROBE	P83-A1	12/17/07	8:00	3.0	8.0	X	X			X				
GW	GEOPROBE	P83-A1 DUPLICATE	12/17/07	8:00	3.0	8.0	X	X			X				
GW	GEOPROBE	P83-A3	12/17/07	8:30	3.0	8.0	X	X			X				
GW	GEOPROBE	P83-A5	12/17/07	9:00	5.0	10.0	X	X			X				
BLANK	TRIP	TRIP BLANK	12/18/07	8:30	--	--	X								
BLANK	FIELD	FIELD BLANK	12/18/07	15:55	--	--	X	X	X	X					TPHC field blank not collected.
SOIL	GEOPROBE	P83-SB11-A	12/18/07	8:45	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB11-B	12/18/07	8:55	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB11-C	12/18/07	9:05	3.0	3.5	X	X	X	X					
SOIL	GEOPROBE	P83-SB5-A	12/18/07	10:50	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB5-B	12/18/07	11:00	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB5-C	12/18/07	11:10	3.0	3.5	X	X	X	X					
SOIL	GEOPROBE	P83-SB6-A	12/18/07	11:30	0.0	0.5			X	X	X				

Table 3.21-2
Parcel 83 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P83-SB6-B	12/18/07	11:40	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB6-C	12/18/07	11:50	3.0	3.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB7-A	12/18/07	12:10	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB7-B	12/18/07	12:20	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB7-C	12/18/07	12:30	2.5	3.0		X	X	X	X				
SOIL	GEOPROBE	P83-SB14-A	12/18/07	14:45	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-SB14-B	12/18/07	14:55	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB14-C	12/18/07	15:05	3.0	3.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB14-C DUPLICATE	12/18/07	15:05	3.0	3.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB15-A	12/18/07	15:30	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-SB15-B	12/18/07	15:40	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB15-C	12/18/07	15:50	3.0	3.5		X	X	X	X				
SOIL	HAND AUGER	P83-SS21	12/18/07	13:15	0.0	0.5	X			X					
SOIL	HAND AUGER	P83-SS20	12/18/07	13:25	0.0	0.5	X			X					
SOIL	HAND AUGER	P83-SS19	12/18/07	13:35	0.0	0.5	X			X					
SOIL	HAND AUGER	P83-SS18	12/18/07	13:45	0.0	0.5	X			X					
BLANK	TRIP	TRIP BLANK	12/19/07	8:50	--	--	X								
BLANK	FIELD	FIELD BLANK	12/19/07	16:00	--	--		X	X	X	X				
SOIL	GEOPROBE	P83-SB16-A	12/19/07	8:30	0.0	0.5			X	X	X				
SOIL	GEOPROBE	P83-SB16-B	12/19/07	8:40	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB16-C	12/19/07	8:50	2.0	2.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB17-A	12/19/07	9:15	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-SB17-B	12/19/07	9:25	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB17-C	12/19/07	9:35	5.5	6.0		X	X	X	X				
SOIL	GEOPROBE	P83-SB1-A	12/19/07	10:20	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-SB1-B	12/19/07	10:30	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB1-C	12/19/07	10:40	5.0	5.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB1-C DUPLICATE	12/19/07	10:40	5.0	5.5		X	X	X	X				
SOIL	GEOPROBE	P83-SB2-A	12/19/07	11:30	0.0	0.5			X	X	X	X			
SOIL	GEOPROBE	P83-SB2-B	12/19/07	11:40	1.5	2.0	X								

Table 3.21-2
Parcel 83 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P83-SB2-C	12/19/07	11:50	5.0	5.5	X	X	X	X					
SOIL	GEOPROBE	P83-SB8-A	12/19/07	13:10	0.0	0.5		X	X	X					
SOIL	GEOPROBE	P83-SB8-B	12/19/07	13:20	1.5	2.0	X								
SOIL	GEOPROBE	P83-SB8-C	12/19/07	13:30	3.5	4.0	X	X	X	X					
BLANK	TRIP	TRIP BLANK-AQ	12/20/07	8:00	--	--	X								
BLANK	FIELD	FIELD BLANK-AQ	12/20/07	10:00	--	--	X	X	X						
GW	GEOPROBE	P83-GW-1	12/20/07	10:30	5.0	10.0	X	X							
GW	GEOPROBE	P83-GW-1 DUPLICATE	12/20/07	10:30	5.0	10.0	X	X							
GW	GEOPROBE	P83-GW-3	12/20/07	11:00	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-5	12/20/07	11:30	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-7	12/20/07	12:00	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-8	12/20/07	13:30	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-10	12/20/07	14:00	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-12	12/20/07	14:30	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-14	12/20/07	15:00	4.0	9.0	X	X							
GW	GEOPROBE	P83-GW-17	12/20/07	15:30	6.0	11.0	X	X							
GW	MONITORING WELL	161-MW-01	12/20/07	16:00	5.2	15.2	X	X	X						

X = Sample analyzed for the indicated analytical parameter suite

Table 3.21-3
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of TPHC Detected in Soil (mg/kg)

Sample ID	Lab ID	Sample Date	Depth (ft. bgs)	Result	MDL	NJDEP NRDCSCC ² (mg/kg)	NJDEP IGWSCC ³ (mg/kg)
P83-SS18	7054025	12/18/07	0.0-0.5	181	81	10000	10000
P83-SS19	7054024	12/18/07	0.0-0.5	111	82	10000	10000
P83-SS20	7054023	12/18/07	0.0-0.5	117	77	10000	10000

¹ NJDEP Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) per NJAC 7:26D, 1999.

² NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) per NJAC 7:26D, 1999.

³ NJDEP Impact to Groundwater Soil Cleanup Criteria (IGWSCC) per NJAC 7:26D, 1999.

DUP = Duplicate sample.

ft. bgs = Feet below ground surface.

MDL = Method detection limit

mg/kg = milligram per kilogram.

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical	Sample ID: Lab ID: Date Sampled: Depth (ft. bgs):	Analytical Results															
		P83-A1-A 7053203 12/14/2007 0.0-0.5	P83-A1-B 7053204 12/14/2007 1.5-2.0	P83-A1-C 7053205 12/14/2007 2.5-3.0	P83-A2-A 7053206 12/14/2007 0.5-1.0	P83-A2-B 7053207 12/14/2007 1.5-2.0	P83-A2-C 7053208 12/14/2007 3.5-4.0	P83-A3-A 7053209 12/14/2007 0.5-1.0	P83-A3-B 7053210 12/14/2007 1.5-2.0	P83-A3-C 7053211 12/14/2007 3.0-3.5	P83-A4-A 7053212 12/14/2007 0.0-0.5	P83-A4-B 7053213 12/14/2007 1.5-2.0	P83-A4-C 7053214 12/14/2007 3.0-3.5	P83-A5-A 7053215 12/14/2007 0.0-0.5	P83-A5-B 7053216 12/14/2007 1.5-2.0	P83-A5-C 7053217 12/14/2007 6.0-6.5	
		NRDCSCC ²	IGWSCC ³	Result	Result												
		Volatiles															
Acetone	1000	100	NT	0.280 U	0.290 U	NT	0.260 JB	1.300 B	NT	1.300 B	0.170 JB	NT	0.320 B	0.370 B	NT	0.460 B	0.220 JB
Benzene	13	1	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.290 U	0.290 U
Carbon disulfide	NLE	NLE	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.023 J	0.290 U
1,2-Dichloroethane	24	1	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.290 U	0.290 U
Ethylbenzene	1000	100	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.290 U	0.290 U
Methylene Chloride	210	1	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.290 U	0.290 U
Toluene	1000	500	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.029 J	0.290 U
Trichloroethylene	54	1	NT	0.280 U	0.290 U	NT	0.270 U	0.300 U	NT	0.280 U	0.280 U	NT	0.250 U	0.280 U	NT	0.290 U	0.290 U
Xylenes (Total)	1000	67	NT	0.850 U	0.880 U	NT	0.800 U	0.890 U	NT	0.830 U	0.830 U	NT	0.740 U	0.840 U	NT	0.860 U	0.870 U
Semi-Volatiles																	
Acenaphthene	10000	100	1.100 U	NT	1.100 U	0.120 J	NT	1.100 U	0.530 J	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Acenaphthylene	NLE	NLE	1.500	NT	1.100 U	1.300	NT	1.100 U	0.550 J	NT	1.200 U	0.810 J	NT	1.200 U	0.065 J	NT	1.200 U
Anthracene	10000	100	1.200	NT	1.100 U	1.200	NT	1.100 U	1.100	NT	1.200 U	0.810 J	NT	0.075 J	0.110 J	NT	1.200 U
Benzo[a]anthracene	4	500	7.000	NT	0.110 J	5.500	NT	0.075 J	2.22	NT	0.110 J	4.100	NT	0.230 J	0.530 J	NT	1.200 U
Benzo[a]pyrene	0.66	100	7.500	NT	0.120 J	5.000	NT	1.100 U	1.900	NT	0.100 J	3.700	NT	0.210 J	0.440 J	NT	1.200 U
Benzo[b]fluoranthene	4	50	9.700	NT	0.160 J	7.700	NT	1.100 U	2.900	NT	0.180 J	5.000	NT	0.280 J	0.940 J	NT	1.200 U
Benzo[g,h,i]perylene	NLE	NLE	3.400	NT	1.100 U	1.700	NT	1.100 U	0.600 J	NT	1.200 U	1.600	NT	1.200 U	1.100 U	NT	1.200 U
Benzo[k]fluoranthene	4	500	3.800	NT	0.052 J	2.400	NT	1.100 U	0.860 J	NT	1.200 U	2.000	NT	0.092 J	0.230 J	NT	1.200 U
bis(2-chloroethyl)ether	3	10	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
bis(2-Ethylhexyl)phthalate	210	100	1.100 U	NT	0.290 J	0.330 J	NT	0.330 J	0.350 J	NT	0.310 J	1.200 U	NT	0.370 J	0.380 J	NT	0.270 J
Butyl benzyl phthalate	10000	100	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
4-Chloroaniline	4200	NLE	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Chrysene	40	500	8.600	NT	0.150 J	6.500	NT	0.096 J	2.500	NT	0.150 J	5.000	NT	0.320 J	0.740 J	NT	1.200 U
Dibenz[a,h]anthracene	0.66	100	1.100 U	NT	1.100 U	0.680 J	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Dibenzofuran	NLE	NLE	1.100 U	NT	1.100 U	0.087 J	NT	1.100 U	0.380 J	NT	1.200 U	1.200 U	NT	1.200 U	0.075 J	NT	1.200 U
Diethyl phthalate	10000	50	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Di-n-butylphthalate	10000	100	1.200 B	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	0.360 JB	NT	1.200 U	1.100 U	NT	1.200 U
Di-n-octyl phthalate	10000	100	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Fluoranthene	10000	100	8.700	NT	0.150 J	9.400	NT	0.140 J	4.600	NT	0.260 J	7.100	NT	0.530 J	1.000 J	NT	1.200 U
Fluorene	10000	100	1.100 U	NT	1.100 U	0.087 J	NT	1.100 U	1.100 J	NT	1.200 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U
Indeno[1,2,3-cd]pyrene	4	500	3.100	NT	1.100 U	1.700	NT	1.100 U	0.510 J	NT							

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical			Analytical Results															
	Sample ID:	Lab ID:	P83-B1-A	P83-B1-B	P83-B1-C	P83-B1-C DUP	P83-B2-A	P83-B2-B	P83-B2-C	P83-B3-A	P83-B3-B	P83-B3-C	P83-B4-A	P83-B4-B	P83-B4-C	P83-B5-A	P83-B5-B	
	Date Sampled:	Depth (ft. bgs):	7053218	7053219	7053220	7053202	7053222	7053223	7053401	7053402	7053403	7053406	7053407	7053408	7053409	7053410		
NRDCSCC ²	IGWSCC ³	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatiles																		
Acetone	1000	100	NT	0.580 B	0.280 U	0.340 U	NT	0.500 B	0.150 JB	NT	0.880	1.200	NT	1.300	1.300	NT	1.200	
Benzene	13	1	NT	0.330	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.015 J	0.280 U	NT	0.270 U	
Carbon disulfide	NLE	NLE	NT	0.015 J	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.270 U	0.280 U	NT	0.270 U	
1,2-Dichloroethane	24	1	NT	0.260 U	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.270 U	0.280 U	NT	0.270 U	
Ethylbenzene	1000	100	NT	0.220 J	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.023 J	0.280 U	NT	0.270 U	
Methylene Chloride	210	1	NT	0.260 U	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.270 U	0.280 U	NT	0.270 U	
Toluene	1000	500	NT	1.200	0.280 U	0.340 U	NT	0.300 U	0.038 J	NT	0.260 U	0.300 U	NT	0.067 J	0.280 U	NT	0.270 U	
Trichloroethylene	54	1	NT	0.260 U	0.280 U	0.340 U	NT	0.300 U	0.310 U	NT	0.260 U	0.300 U	NT	0.270 U	0.280 U	NT	0.270 U	
Xylenes (Total)	1000	67	NT	1.400	0.850 U	1.020 U	NT	0.910 U	0.920 U	NT	0.790 U	0.910 U	NT	0.307 J	0.840 U	NT	0.800 U	
Semi-Volatiles																		
Acenaphthene	10000	100	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Acenaphthylene	NLE	NLE	1.000 U	NT	1.200 U	1.100 U	0.140 J	NT	1.200 U	0.072 J	NT	1.200 U	1.200 U	NT	1.200 U	0.130 J	NT	
Anthracene	10000	100	1.000 U	NT	1.200 U	1.100 U	0.100 J	NT	1.200 U	0.110 J	NT	1.200 U	1.200 U	NT	1.200 U	0.140 J	NT	
Benzo[a]anthracene	4	500	1.000 U	NT	1.200 U	0.130 J	0.500 J	NT	1.200 U	0.770 J	NT	1.200 U	0.250 J	NT	0.100 J	0.690 J	NT	
Benzo[a]pyrene	0.66	100	1.000 U	NT	1.200 U	0.110 J	1.200 U	NT	1.200 U	0.730 J	NT	1.200 U	0.270 J	NT	1.200 U	0.680 J	NT	
Benzo[b]fluoranthene	4	50	1.000 U	NT	0.120 J	0.160 J	1.000 J	NT	1.200 U	1.300	NT	1.200 U	0.480 J	NT	0.140 J	1.000 J	NT	
Benzo[g,h,i]perylene	NLE	NLE	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Benzo[k]fluoranthene	4	500	1.000 U	NT	1.200 U	0.072 J	1.200 U	NT	1.200 U	0.410 J	NT	1.200 U	0.130 J	NT	1.200 U	0.710 J	NT	
bis(2-chloroethyl)ether	3	10	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	0.240 J	NT	
bis(2-Ethylhexyl)phthalate	210	100	0.740 J	NT	0.310 J	1.100 U	0.510 J	NT	0.300 J	0.480 JB	NT	0.410 JB	0.500 JB	NT	0.180 JB	0.660 JB	NT	
Butyl benzyl phthalate	10000	100	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
4-Chloroaniline	4200	NLE	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Chrysene	40	500	1.000 U	NT	0.100 J	0.180 J	0.850 J	NT	1.200 U	0.970 J	NT	1.200 U	0.290 J	NT	0.100 J	0.970 J	NT	
Dibenz[a,h]anthracene	0.66	100	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Dibenzofuran	NLE	NLE	1.000 U	NT	1.200 U	1.100 U	0.240 J	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	0.070 J	NT	
Diethyl phthalate	10000	50	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Di-n-butylphthalate	10000	100	1.000 U	NT	1.200 U	2.22 B	1.200 U	NT	1.200 U	0.460 JB	NT	0.460 JB	0.290 JB	NT	0.760 JB	0.410 JB	NT	
Di-n-octyl phthalate	10000	100	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Fluoranthene	10000	100	1.000 U	NT	0.190 J	0.280 J	0.710 J	NT	1.200 U	1.300	NT	1.200 U	0.390 J	NT	0.200 J	1.000 J	NT	
Fluorene	10000	100	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
Indeno[1,2,3-cd]pyrene	4	500	1.000 U	NT	1.200 U	1.100 U	1.200 U	NT	1.200 U	0.260 J	NT	1.200 U	1.200 U	NT	1.200 U	1.000 U	NT	
2-Methylnaphthalene	NLE	NLE	0.190 J	NT	1.200 U	0.860 J	NT	1.200 U	0.230 J	NT	1.200 U	1.200 U	NT	1.200 U	0.140 J	NT		
Naphthalene	4200	100	0.090 J	NT	1.200 U	1.100 U	0.550 J	NT	1.200 U	0.160 J	NT	1.200 U	1.200 U	NT	1.200 U	0.140 J	NT	
Phenanthrene	NLE	NLE	0.100 J	NT	0.090 J	0.130 J	0.910 J	NT	1.200 U	0.520 J	NT	1.200 U	0.120 J	NT	0.160 J	0.760 J	NT	
Pyrene	10000	100	1.000 U	NT	0.190 J	0.290 J	1.900	NT	1.200 U	1.700	NT	1.200 U	0.500 J	NT	0.210 J	1.500		

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical			Analytical Results																
	Sample ID:	Lab ID:	P83-B5-C	P83-B5-C DUP	P83-SB1-A	P83-SB1-B	P83-SB1-C	P83-SB1-C DUP	P83-SB2-A	P83-SB2-B	P83-SB2-C	P83-SB3-A	P83-SB3-B	P83-SB3-C	P83-SB3-C DUP	P83-SB4-A	P83-SB4-B		
	Date Sampled:	12/15/2007	7053405	7054710	12/19/2007	7054711	12/19/2007	7054712	12/19/2007	7054713	12/19/2007	7054715	12/19/2007	7053613	12/17/2007	7053614	12/17/2007	7053615	12/17/2007
Depth (ft. bgs):	7.0-7.5	7.0-7.5	0.0-0.5	1.5-2.0	5.0-5.5	5.0-5.5	0.0-0.5	1.5-2.0	5.0-5.5	1.0-1.5	1.5-2.0	3.5-4.0	0.0-0.5	1.5-2.0	3.5-4.0	0.0-0.5	1.5-2.0	3.5-4.0	
NRDCSCC ²	IGWSCC ³	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	
Volatiles																			
Acetone	1000	100	1.200	1.500	NT	0.710	0.270 U	1.000	NT	0.250 U	0.280 U	NT	3.200 B	3.300 B	3.100 B	NT	3.000 B		
Benzene	13	1	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.260 U	0.270 U	NT	0.250 U		
Carbon disulfide	NLE	NLE	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.260 U	0.270 U	NT	0.250 U		
1,2-Dichloroethane	24	1	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.260 U	0.270 U	NT	0.250 U		
Ethylbenzene	1000	100	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.036 J	0.270 U	NT	0.028 J		
Methylene Chloride	210	1	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.073 JB	0.077 JB	0.089 JB	NT	0.056 JB		
Toluene	1000	500	0.270 U	0.033 J	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.022 J	0.270 U	NT	0.250 U		
Trichloroethylene	54	1	0.270 U	0.380 U	NT	0.250 U	0.270 U	0.300 U	NT	0.250 U	0.280 U	NT	0.250 U	0.260 U	0.270 U	NT	0.250 U		
Xylenes (Total)	1000	67	0.810 U	1.150 U	NT	0.760 U	0.810 U	0.900 U	NT	0.750 U	0.850 U	NT	0.740 U	0.050 J	0.060 J	NT	0.047 J		
Semi-Volatiles																			
Acenaphthene	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
Acenaphthylene	NLE	NLE	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	0.310 J	NT		
Anthracene	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	0.280 J	NT		
Benzo[a]anthracene	4	500	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.800	NT		
Benzo[a]pyrene	0.66	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.900	NT		
Benzo[b]fluoranthene	4	50	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	3.100	NT		
Benzo[g,h,i]perylene	NLE	NLE	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	0.710 J	NT		
Benzo[k]fluoranthene	4	500	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 J	NT		
bis(2-chloroethyl)ether	3	10	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
bis(2-Ethylhexyl)phthalate	210	100	0.160 JB	0.410 JB	0.200 JB	NT	0.180 JB	0.120 JB	0.120 JB	NT	0.210 JB	0.240 JB	NT	0.290 JB	1.200 U	0.240 JB	NT		
Butyl benzyl phthalate	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
4-Chloroaniline	4200	NLE	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	0.470 J	1.100 U	NT		
Chrysene	40	500	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.900	NT		
Dibenz[a,h]anthracene	0.66	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
Dibenzofuran	NLE	NLE	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
Diethyl phthalate	10000	50	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
Di-n-butylphthalate	10000	100	0.580 JB	0.290 JB	0.084 JB	NT	0.061 JB	1.200 U	1.000 U	NT	0.059 JB	0.510 JB	NT	1.300 B	0.380 JB	0.750 JB	NT		
Di-n-octyl phthalate	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	0.092 J	NT	0.090 J	1.200 U	1.100 U	NT
Fluoranthene	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	0.059 J	2.220	NT		
Fluorene	10000	100	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.100 U	NT		
Indeno[1,2,3-cd]pyrene	4	500	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.200 U	1.000 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	0.690 J	NT		
2-Methylnaphthalene	NLE	NLE																	

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical			Analytical Results															
	Sample ID:	Lab ID:	P83-SB4-C 7053618	P83-SB5-A 7054007	P83-SB5-B 7054008	P83-SB5-C 7054009	P83-SB6-A 7054010	P83-SB6-B 7054011	P83-SB6-C 7054012	P83-SB7-A 7054013	P83-SB7-B 7054014	P83-SB7-C 7054015	P83-SB8-A 7054716	P83-SB8-B 7054717	P83-SB8-C 7054718	P83-SB9-A 7053604	P83-SB9-B 7053605	
	Date Sampled:	Depth (ft. bgs):	12/17/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/18/2007	12/19/2007	12/19/2007	12/19/2007	12/17/2007	12/17/2007	
NRDCSCC ²	IGWSCC ³	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatiles																		
Acetone	1000	100	3.800 B	NT	0.110 J	0.110 J	NT	0.076 J	0.270 U	NT	0.150 J	0.180 J	NT	0.300 U	0.290 U	NT	5.000 B	
Benzene	13	1	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.300 U	0.290 U	NT	0.390 U	
Carbon disulfide	NLE	NLE	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.098 J	0.290 U	NT	0.390 U	
1,2-Dichloroethane	24	1	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.330	0.290 U	NT	0.390 U	
Ethylbenzene	1000	100	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.300 U	0.290 U	NT	0.390 U	
Methylene Chloride	210	1	0.068 JB	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.300 U	0.290 U	NT	0.120 JB	
Toluene	1000	500	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.300 U	0.290 U	NT	0.390 U	
Trichloroethylene	54	1	0.280 U	NT	0.320 U	0.290 U	NT	0.250 U	0.270 U	NT	0.240 U	0.270 U	NT	0.300 U	0.290 U	NT	5.800	
Xylenes (Total)	1000	67	0.850 U	NT	0.790 U	0.870 U	NT	0.760 U	0.820 U	NT	0.720 U	0.810 U	NT	0.900 U	0.870 U	NT	1.160 U	
Semi-Volatiles																		
Acenaphthene	10000	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Acenaphthylene	NLE	NLE	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Anthracene	10000	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Benzo[a]anthracene	4	500	1.100 U	0.062 J	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	0.093 J	1.100 U	NT	1.200 U	0.240 J	NT	
Benzo[a]pyrene	0.66	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	0.470 J	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Benzo[b]fluoranthene	4	50	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Benzo[g,h,i]perylene	NLE	NLE	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Benzo[k]fluoranthene	4	500	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
bis(2-chloroethyl)ether	3	10	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
bis(2-Ethylhexyl)phthalate	210	100	1.100 U	0.510 J	NT	0.430 J	1.100 U	NT	0.410 J	0.390 J	NT	0.440 J	0.220 JB	NT	0.150 JB	0.390 JB	NT	
Butyl benzyl phthalate	10000	100	1.100 U	0.220 J	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
4-Chloroaniline	4200	NLE	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Chrysene	40	500	1.100 U	0.089 J	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	0.120 J	1.100 U	NT	1.200 U	0.360 J	NT	
Dibenz[a,h]anthracene	0.66	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Dibenzofuran	NLE	NLE	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Diethyl phthalate	10000	50	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Di-n-butylphthalate	10000	100	0.350 J	0.084 JB	NT	0.220 JB	0.530 JB	NT	0.250 JB	0.280 JB	NT	0.091 JB	0.074 JB	NT	1.200 U	0.920 JB	NT	
Di-n-octyl phthalate	10000	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Fluoranthene	10000	100	0.054 J	0.110 J	NT	1.200 U	0.140 J	NT	1.200 U	0.096 J	NT	0.170 J	1.100 U	NT	1.200 U	0.490 J	NT	
Fluorene	10000	100	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Indeno[1,2,3-cd]pyrene	4	500	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
2-Methylnaphthalene	NLE	NLE	1.100 U	1.100 U	NT	1.200 U	0.370 J	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U	1.100 U	NT	
Naphthalene	4200	100	1.100 U	1.100 U	NT	1.200 U	0.180 J	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	NT	1.200 U			

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical			Analytical Results															
	Sample ID:	Lab ID:	P83-SB9-C	P83-SB10-A	P83-SB10-B	P83-SB10-C	P83-SB10-D	P83-SB11-A	P83-SB11-B	P83-SB11-C	P83-SB12-A	P83-SB12-B	P83-SB12-C	P83-SB13-A	P83-SB13-B	P83-SB13-C	P83-SB14-A	
	Date Sampled:	12/17/2007	7053606	7053412	7053413	7053414	7053415	7054004	7054005	7054006	7053610	7053611	7053612	7053607	7053608	7053609	7054016	
Depth (ft. bgs):	4.5-5.0	0.0-0.5	1.5-2.0	5.0-5.5	6.5-7.0	0.0-0.5	1.5-2.0	3.0-3.5	0.0-0.5	1.5-2.0	3.0-3.5	0.0-0.5	1.5-2.0	3.0-3.5	0.0-0.5	1.5-2.0	3.5-4.0	0.0-0.5
NRDCSCC ²	IGWSCC ³	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatiles																		
Acetone	1000	100	4.300 B	NT	1.000	1.000	1.100	NT	0.081 J	0.092 J	NT	4.200 B	3.400 B	NT	4.100 B	3.700 B	NT	
Benzene	13	1	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.016 J	NT	0.300 U	0.280 U	NT	
Carbon disulfide	NLE	NLE	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.270 U	NT	0.300 U	0.280 U	NT	
1,2-Dichloroethane	24	1	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.270 U	NT	0.300 U	0.280 U	NT	
Ethylbenzene	1000	100	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.077 J	NT	0.300 U	0.020 J	NT	
Methylene Chloride	210	1	0.055 JB	NT	0.240 U	0.023 J	0.250 U	NT	0.260 U	0.270 U	NT	0.110 JB	0.072 JB	NT	0.093 JB	0.099 JB	NT	
Toluene	1000	500	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.110 J	NT	0.300 U	0.061 J	NT	
Trichloroethylene	54	1	0.260 U	NT	0.240 U	0.270 U	0.250 U	NT	0.260 U	0.270 U	NT	0.340 U	0.270 U	NT	0.300 U	0.280 U	NT	
Xylenes (Total)	1000	67	0.780 U	NT	0.720 U	0.800 U	0.760 U	NT	0.790 U	0.810 U	NT	1.020 U	0.294 J	NT	0.890 U	0.063 J	NT	
Semi-Volatiles																		
Acenaphthene	10000	100	0.160 J	1.100 U	NT	0.210 J	0.440 J	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Acenaphthylene	NLE	NLE	0.140 J	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	0.230 J	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Anthracene	10000	100	0.920 J	1.100 U	NT	1.100 U	0.310 J	1.200 U	NT	1.200 U	0.400 J	NT	1.200 U	0.097 J	NT	1.100 U	0.210 J	
Benzo[a]anthracene	4	500	2.800	1.100 U	NT	1.100 U	1.100 U	0.095 J	NT	1.200 U	2.400	NT	1.200 U	0.410 J	NT	0.180 J	0.200 J	
Benzo[a]pyrene	0.66	100	2.400	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	2.000	NT	1.200 U	0.350 J	NT	0.160 J	0.250 J	
Benzo[b]fluoranthene	4	50	3.500	1.100 U	NT	1.100 U	1.100 U	0.130 J	NT	1.200 U	3.000	NT	1.200 U	0.610 J	NT	0.260 J	0.410 J	
Benzo[g,h,i]perylene	NLE	NLE	0.900 J	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Benzo[k]fluoranthene	4	500	1.300	1.100 U	NT	1.100 U	1.100 U	0.054 J	NT	1.200 U	1.200	NT	1.200 U	0.160 J	NT	0.120 J	0.180 J	
bis(2-chloroethyl)ether	3	10	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
bis(2-Ethylhexyl)phthalate	210	100	0.250 JB	1.100 U	NT	1.100 U	1.100 U	0.110 J	NT	1.200 U	0.350 J	NT	0.480 JB	0.280 JB	NT	0.240 JB	0.430 J	
Butyl benzyl phthalate	10000	100	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
4-Chloroaniline	4200	NLE	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Chrysene	40	500	2.900	1.100 U	NT	1.100 U	1.100 U	0.120 J	NT	1.200 U	2.500	NT	1.200 U	0.510 J	NT	0.260 J	0.250 J	
Dibenz[a,h]anthracene	0.66	100	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Dibenzofuran	NLE	NLE	0.140 J	1.100 U	NT	0.180 J	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Diethyl phthalate	10000	50	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Di-n-butylphthalate	10000	100	0.490 JB	0.850 JB	NT	0.300 JB	0.580 JB	0.330 JB	NT	0.280 JB	0.670 JB	NT	0.850 JB	0.760 JB	NT	0.800 JB	0.079 JB	
Di-n-octyl phthalate	10000	100	1.000 U	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	0.092 J	1.100 U	
Fluoranthene	10000	100	5.500	0.190 J	NT	1.100 U	0.760 J	0.160 J	NT	1.200 U	3.400	NT	1.200 U	0.850 J	NT	0.340 J	0.280 J	
Fluorene	10000	100	0.210 J	1.100 U	NT	0.190 J	0.330 J	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Indeno[1,2,3-cd]pyrene	4	500	0.950 J	1.100 U	NT	1.100 U	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
2-Methylnaphthalene	NLE	NLE	1.000 U	4.300	NT	1.100 J	1.100 U	1.200 U	NT	1.200 U	1.100 U	NT	1.200 U	1.200 U	NT	1.100 U	1.100 U	
Naphthalene	4200	100	1.000 U	2.220	NT	1.100 U</td												

Table 3.21-4
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Soil (mg/kg)

Chemical	Sample ID: Lab ID: Date Sampled: Depth (ft. bgs):		Analytical Results											
			P83-SB14-B 7054017 12/18/2007 1.5-2.0	P83-SB14-C 7054018 12/18/2007 3.0-3.5	P83-SB14-C DUP 7054003 12/18/2007 3.0-3.5	P83-SB15-A 7054019 12/18/2007 0.0-0.5	P83-SB15-B 7054020 12/18/2007 1.5-2.0	P83-SB15-C 7054021 12/18/2007 3.0-3.5	P83-SB16-A 7054704 12/19/2007 0.0-0.5	P83-SB16-B 7054705 12/19/2007 1.5-2.0	P83-SB16-C 7054706 12/19/2007 2.0-2.5	P83-SB17-A 7054707 12/19/2007 0.0-0.5	P83-SB17-B 7054708 12/19/2007 1.5-2.0	P83-SB17-C 7054709 12/19/2007 5.5-6.0
			NRDCSCC ²	IGWSCC ³	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
	Volatiles													
Acetone	1000	100	0.200 J	0.370 U	0.330 U	NT	0.930	0.270 U	NT	1.200	0.290 U	NT	0.280 U	0.260 U
Benzene	13	1	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Carbon disulfide	NLE	NLE	0.300 U	0.370 U	0.330 U	NT	0.039 J	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
1,2-Dichloroethane	24	1	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Ethylbenzene	1000	100	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Methylene Chloride	210	1	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Toluene	1000	500	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Trichloroethylene	54	1	0.300 U	0.370 U	0.330 U	NT	0.290 U	0.270 U	NT	0.310 U	0.290 U	NT	0.280 U	0.260 U
Xylenes (Total)	1000	67	0.900 U	1.120 U	0.980 U	NT	0.870 U	0.810 U	NT	0.920 U	0.860 U	NT	0.850 U	0.780 U
Semi-Volatiles														
Acenaphthene	10000	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Acenaphthylene	NLE	NLE	NT	0.130 J	0.340 J	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Anthracene	10000	100	NT	0.095 J	0.091 J	0.060 J	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Benzo[a]anthracene	4	500	NT	0.550 J	0.570 J	0.290 J	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Benzo[a]pyrene	0.66	100	NT	0.580 J	0.730 J	0.310 J	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Benzo[b]fluoranthene	4	50	NT	0.720 J	1.100 J	0.500 J	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Benzo[g,h,i]perylene	NLE	NLE	NT	0.500 J	0.530 J	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Benzo[k]fluoranthene	4	500	NT	0.310 J	0.420 J	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
bis(2-chloroethyl)ether	3	10	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
bis(2-Ethylhexyl)phthalate	210	100	NT	0.470 J	1.200 U	0.520 J	NT	0.260 J	1.100 U	NT	0.140 JB	0.200 JB	NT	0.210 JB
Butyl benzyl phthalate	10000	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
4-Chloroaniline	4200	NLE	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Chrysene	40	500	NT	0.570 J	0.800 J	0.370 J	NT	1.200 U	0.260 J	NT	1.100 U	1.100 U	NT	1.100 U
Dibenz[a,h]anthracene	0.66	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Dibenzofuran	NLE	NLE	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Diethyl phthalate	10000	50	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Di-n-butylphthalate	10000	100	NT	0.280 JB	0.380 JB	0.270 JB	NT	0.310 JB	1.100 U	NT	0.055 JB	0.110 JB	NT	0.068 JB
Di-n-octyl phthalate	10000	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Fluoranthene	10000	100	NT	0.690 J	0.580 J	0.480 J	NT	1.200 U	0.240 J	NT	1.100 U	0.086 J	NT	1.100 U
Fluorene	10000	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
Indeno[1,2,3-cd]pyrene	4	500	NT	0.440 J	0.520 J	1.100 U	NT	1.200 U	1.100 U	NT	1.100 U	1.100 U	NT	1.100 U
2-Methylnaphthalene	NLE	NLE	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	0.250 J	NT	1.100 U	1.100 U	NT	1.100 U
Naphthalene	4200	100	NT	1.200 U	1.200 U	1.100 U	NT	1.200 U	0.160 J	NT	1.100 U	1.100 U	NT	1.100 U
Phenanthrene	NLE	NLE	NT	0.240 J	0.100 J	0.170 J	NT	1.200 U	0.230 J	NT	1.100 U	1.100 U	NT	1.100 U
Pyrene	10000	100	NT	0.800 J	0.800 J	0.670 J	NT	1.200 U	0.290 J	NT	1.100 U	0.094 J	NT	1.100 U
PCBs														
Aroclor 1260	2	50	NT	0.0040 U	0.0041 U	0.0041 U	NT	0.0041 U	0.0041 U	NT	0.0042 U	0.0041 U	NT	0.0039 U
Metals														
Aluminum	NLE	NLE	NT	19000 B	16900 B	8030 B	NT	19800 B	6520 B	NT	17000 B			

Table 3.21-5
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Groundwater (µg/L)

Chemical	Sample ID: Lab ID: Date Sampled: Screened Interval (ft. bgs):	Analytical Results									
		P83-161MW-01 7055713 12/20/2007 5.2-15.2	P83-A1 7053804 12/17/2007 3-8	P83-A1 DUP 7053803 12/17/2007 3-8	P83-A3 7053805 12/17/2007 3-8	P83-A5 7053806 12/17/2007 5-10	P83GW-1 7055704 12/20/2007 5-10	P83GW-1 DUP 7055703 12/20/2007 5-10	P83GW-3 7055705 12/20/2007 4-9	P83GW-5 7055706 12/20/2007 4-9	
		Quality Criteria ¹	Results	Results	Results	Results	Results	Results	Results	Results	Results
Volatiles											
Acetone	6000	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Carbon disulfide	700	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.20 J	0.44 U
1,2-Dichloroethane	2	0.30 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tertiary butyl ether (MTBE)	70	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.03	0.23 U
Tertiary butyl alcohol	100	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	23.38	1.82 U
Toluene	600	0.27 U	0.27 U	0.27 U	0.84	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Xylenes (Total)	1000	0.49 U	0.49 U	0.49 U	0.24 J	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Semi-Volatiles											
Acenaphthene	400	10 U	11 U	11 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	2000	10 U	11 U	11 U	0.40 J	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	3	10 U	5 JB	4 JB	10 U	0.60 JB	2 JB	10 U	0.90 JB	1 JB	
Dibenzofuran	NLE	10 U	11 U	11 U	0.70 J	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	6000	10 U	11 U	11 U	0.50 JB	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	700	10 U	4 JB	1 JB	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	100	0.50 JB	1 J	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	300	10 U	11 U	11 U	0.50 J	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	300	10 U	11 U	11 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	30	10 U	11 U	11 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	300	10 U	11 U	11 U	5 J	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	NLE	10 U	11 U	11 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	200	10 U	0.50 J	11 U	0.40 J	10 U	10 U	10 U	10 U	10 U	10 U
Metals											
Aluminum	200	NT	2460 B	1440 B	1710 B	884 B	NT	NT	NT	NT	NT
Arsenic	3	NT	2.70 U	5.04	2.70 U	2.70 U	NT	NT	NT	NT	NT
Barium	6000	NT	58.7	107	26.1	16.3	NT	NT	NT	NT	NT
Beryllium	1	NT	0.794	0.788	0.437	0.132	NT	NT	NT	NT	NT
Cadmium	4	NT	0.358	0.672	0.20 U	0.219	NT	NT	NT	NT	NT
Calcium	NLE	NT	16000 B	27700 B	5710 B	17800 B	NT	NT	NT	NT	NT
Chromium (Total)	70	NT	6.13 B	2.57 B	10 B	2.37 B	NT	NT	NT	NT	NT
Cobalt	100*	NT	1.50	2.08	0.20 U	0.805	NT	NT	NT	NT	NT
Copper	1300	NT	12.1	13.8	5.76	3.34	NT	NT	NT	NT	NT
Iron	300	NT	3520	3860	11100	516	NT	NT	NT	NT	NT
Magnesium	NLE	NT	1290	2050	626	2520	NT	NT	NT	NT	NT
Manganese	50	NT	89 B	140 B	113 B	18.1 B	NT	NT	NT	NT	NT
Nickel (Soluble Salts)	100	NT	4 B	6.43 B	0.56 B	3.16 B	NT	NT	NT	NT	NT
Potassium	NLE	NT	2290 B	3230 B	281 B	1050 B	NT	NT	NT	NT	NT
Selenium	40	NT	5.34 B	4.76 B	2.70 U	7.16 B	NT	NT	NT	NT	NT
Sodium	50000	NT	90000	94800	4630	18500	NT	NT	NT	NT	NT
Vanadium	NLE	NT	20.5	9.07	25.9	1.75	NT	NT	NT	NT	NT
Zinc	2000	NT	120	142	9.55	13.1	NT	NT	NT	NT	NT

¹ Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criterion (GWQC) per NJAC 7:9-6, 2005 (* Interim GWQC).

DUP = Duplicate Sample.

B = The compound was found in the associated method blank as well as in the sample.

ft. bgs = Feet below ground surface.

D = Sample was diluted.

NLE = No limit established.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

Bold = Analyte was detected.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

Shaded = Concentration exceeds Quality Criteria.

U = The compound was analyzed for but not detected.

µg/L = micrograms per liter.

NT = Not tested.

Table 3.21-5
Fort Monmouth Phase II Site Investigation, Parcel 83
Summary of Analytical Parameters Detected in Groundwater (µg/L)

Chemical	Sample ID: Lab ID: Date Sampled: Depth (ft. bgs):	Analytical Results					
		P83GW-7 7055707 12/20/2007 4-9	P83GW-8 7055708 12/20/2007 4-9	P83GW-10 7055709 12/20/2007 4-9	P83GW-12 7055710 12/20/2007 4-9	P83GW-14 7055711 12/20/2007 4-9	P83GW-17 7055712 12/20/2007 6-11
		Quality Criteria ¹	Results	Results	Results	Results	Results
		Volatiles					
Acetone	6000	0.85 U	1.65	2.31	1.63	1.33	0.85 U
Carbon disulfide	700	0.44 U	0.44 U	0.66	0.44 U	0.44 U	0.44 U
1,2-Dichloroethane	2	0.33 U	1.81	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tertiary butyl ether (MTBE)	70	0.23 U	0.77	0.23 U	0.23 U	0.23 U	0.23 U
Tertiary butyl alcohol	100	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
Toluene	600	0.27 U	0.27 U	0.46	0.27 U	0.27 U	0.27 U
Xylenes (Total)	1000	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Semi-Volatiles							
Acenaphthene	400	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	2000	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	3	2 JB	0.60 JB	10 U	10 U	0.70 JB	0.90 JB
Dibenzofuran	NLE	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	6000	10 U	10 U	10 U	10 U	10 U	0.50 J
Di-n-butyl phthalate	700	10 U	0.40 J	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	100	1 JB	10 U	10 U	0.80 JB	0.50 JB	0.50 JB
Fluoranthene	300	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	300	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	30	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	300	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	NLE	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	200	10 U	10 U	10 U	10 U	10 U	10 U
Metals							
Aluminum	200	NT	NT	NT	NT	NT	NT
Arsenic	3	NT	NT	NT	NT	NT	NT
Barium	6000	NT	NT	NT	NT	NT	NT
Beryllium	1	NT	NT	NT	NT	NT	NT
Cadmium	4	NT	NT	NT	NT	NT	NT
Calcium	NLE	NT	NT	NT	NT	NT	NT
Chromium	70	NT	NT	NT	NT	NT	NT
Cobalt	100*	NT	NT	NT	NT	NT	NT
Copper	1300	NT	NT	NT	NT	NT	NT
Iron	300	NT	NT	NT	NT	NT	NT
Magnesium	NLE	NT	NT	NT	NT	NT	NT
Manganese	50	NT	NT	NT	NT	NT	NT
Nickel	100	NT	NT	NT	NT	NT	NT
Potassium	NLE	NT	NT	NT	NT	NT	NT
Selenium	40	NT	NT	NT	NT	NT	NT
Sodium	50000	NT	NT	NT	NT	NT	NT
Vanadium	NLE	NT	NT	NT	NT	NT	NT
Zinc	2000	NT	NT	NT	NT	NT	NT

¹ Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criterion (GWQC) per NJAC 7:9-6 (* Interim GWQC).

DUP = Duplicate Sample.

B = The compound was found in the associated method blank as well as in the sample.

ft. bgs = Feet below ground surface.

D = Sample was diluted.

NLE = No limit established.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

Bold = Analyte was detected.

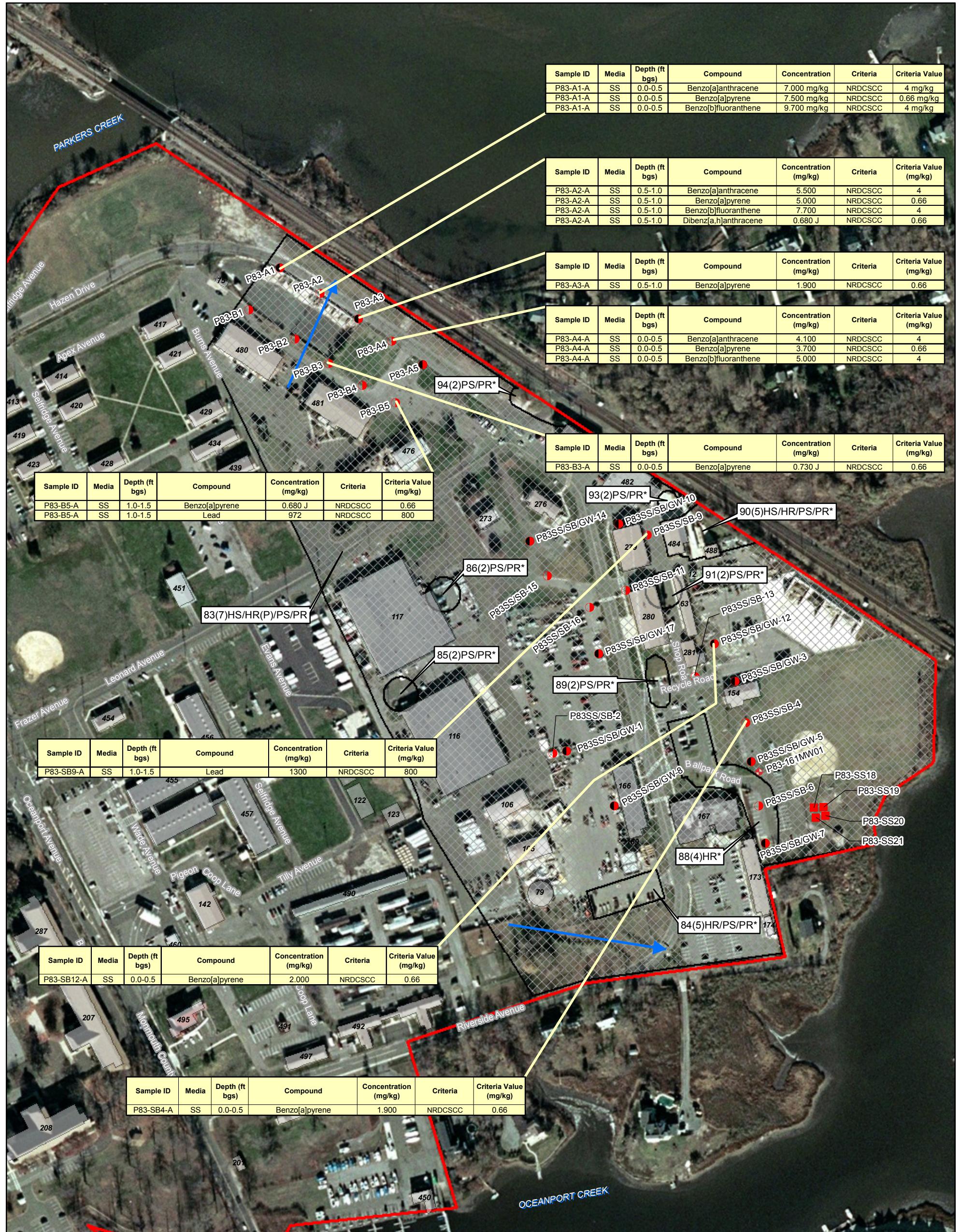
J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

Shaded = Concentration exceeds Quality Criteria.

U = The compound was analyzed for but not detected.

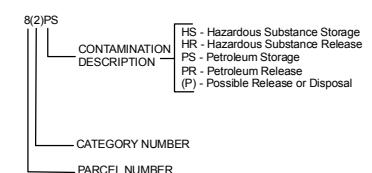
µg/L = micrograms per liter.

NT = Not tested.


LEGEND

- ◆ Groundwater Sample Location at Existing Monitoring Well Location
 - Geoprobe Soil Sample Location
 - Geoprobe Soil & Groundwater Sample Location
 - Surface Soil Sampling Location
 - Direction of Generalized Groundwater Flow derived from qualitative evaluation of surface topography, surface water features, and pre-existing IRP site groundwater potentiometric maps where available.
 - Building
 - Installation Boundary
- ECP PARCEL CATEGORY DEFINITIONS**
- 7 Areas that are not evaluated or require additional evaluation.

* Parcel not included in Site Investigation. Information pertaining to parcels not included in this Site Investigation is presented in the Fort Monmouth Phase I ECP Report (January 2007).

BRAC PARCEL LABEL DEFINITIONS


Aerial photography (0.5-meter resolution), dated January 15, 2006, was obtained from ESRI ArcOnline Map Services, July 2008.

SCALE:
0 112.5 225 450 Feet



Base Realignment and Closure 2005



Shaw Environmental, Inc.

FIGURE 3.21-1
FORT MONMOUTH
ECP SITE INVESTIGATION
PARCEL 83 SAMPLE LOCATIONS
AND CONSTITUENTS OF CONCERN



MAIN POST
FORT MONMOUTH
NEW JERSEY